EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	21	"166" clas. ((index OR indexing) ADJ (piston OR ring))	US- PGPUB; USPAT; USOCR	AND	OFF	2009/10/22 10:38
L2	3	L1 (test OR testing)	US- PGPUB; USPAT; USOCR	AND	OFF	2009/10/22 10:38
L3	14	"166".clas. ((index OR indexing) ADJ (piston))	US- PGPUB; USPAT; USOCR	AND	OFF	2009/10/22 10:40
S1	1	(*20070125554*). PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2008/07/23 14:43
S2	1	("5490564").FN.	US- PGPUB; USPAT; USOCR	OR	OFF	2008/07/23 14:44
S3	1231	166/319,321,323.cols.	US- PGPUB; USPAT; USOCR	AND	OFF	2008/07/23 14:58
S4	337	S3 lock piston	US- PGPUB; USPAT; USOCR	AND	OFF	2008/07/23 14:58
\$5	1231	166/319,321,323.cols.	US- PGPUB; USPAT; USOCR	AND	OFF	2008/07/23 16:56
S6	337	S5 lock piston	US- PGPUB; USPAT; USOCR	AND	OFF	2008/07/23 16:56
S7	99	S6 collet	US- PGPUB; USPAT; USOCR	AND	OFF	2008/07/23 16:56
S8	3	S6 (damping OR damped)	US- PGPUB; USPAT; USOCR	AND	OFF	2008/07/23 17:33

S9	31	["3941510" "409826" "4149555" "445734" "4474242" "4554981" "4682656" "4997160" "4708955" "4999826" "4997160" "5167282" "5216722" "5253713" "5259403" "5599619" "5622199" "5647573" "5836339" "6148923" "6152167" "5623613" "670573" "5290608" "6251511" "6523613" "6554580" "637510" "6705404" "69847073" "599225" "RE31845"), PN. OR ("7331392"), URFN.	US- PGPUB; USPAT; USOCR	AND	OFF	2008/07/24 09: 22
S10	1	("6907926").FN.	US- PGPUB; USPAT; USOCR	OR	OFF	2008/07/24 09:47
S11	1231	166/319,321,323.cds.	US- PGPUB; USPAT; USOCR	AND	OFF	2008/07/24 10:20
S12	136	S11 motor	US- PGPUB; USPAT; USOCR	AND	OFF	2008/07/24 10:20
S13	120	S12 (processor OR control OR controller)	US- PGPUB; USPAT; USOCR	AND	OFF	2008/07/24 10:21
S14	1	("20020046834"). PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2008/07/24 11:02
S15	1476	166/126,128,131,133,183,188,194.cols.	US- PGPUB; USPAT; USOCR	AND	OFF	2009/10/19 16:58
S16	71	S15 (radial ADJ (port OR ports OR passage OR nozzle))	US- PGPUB; USPAT; USOCR	AND	OFF	2009/10/19 16:58
S17	34	["20020027003" "2307946" "3454026" "3807647" 4096419" 4217934" *4249599" "4402617" "450431" "4621695" "4402646" "4660047" 4770250" 5058673" 5193615" "5323653" "5825661" "5832996" "594705" "5957207" "5971004" "6012516" "6058945" "6119783" "6247536" "6298919"), PN. OR ("6523613"). UPFN.	US- PGPUB; USPAT; USOCR	AND	OFF	2009/10/19 17:05
S18	1	("7331392").FN.	US- PGPUB; USPAT; USOCR	OR	OFF	2009/10/19 17:06

S19	31	["3941510"] "4036297" "4149555"] "4457334" "4474242" "4554981" "4682656"] "4997160" "5167282" "5211242" "5253713" "5295403" "5598619! "5622199" "5647573" "5896393" "6148923" "6152167" "6170573" "6290008" "6325151" "6523613" "6554580" "6337510" "6705404" "6540703" "6907926" "RE31845"). FN. OR ("7331392"). URFN.	US- PGPUB; USPAT; USOCR	AND	OFF	2009/10/19 17:24
S20	0	"166".clas. (packer) (((first second third) ADJ (state)) SAME pressure) (radial ADJ (port OR nozzle OR opening OR flowpath))	US- PGPUB; USPAT; USOCR	AND	OFF	2009/10/19 17:29
S21	0	"166".clas. (packer) (((first second third) ADJ (state)) SAME pressure)	US- PGPUB; USPAT; USOCR	AND	OFF	2009/10/19 17:29
S22	2	"166".clas. (packer) (((first second third) ADJ (state)))	US- PGPUB; USPAT; USOCR	AND	OFF	2009/10/19 17:29
S23	193	"166".clas. (packer) plug (radial ADJ (port OR nozzle OR opening OR flowpath))	US- PGPUB; USPAT; USOCR	AND	OFF	2009/10/19 17:30
S24	1301	166/319,321,323.ccls.	US- PGPUB; USPAT; USOCR	AND	OFF	2009/10/19 17:48
S25	51	\$24 (index OR indexable)	US- PGPUB; USPAT; USOCR	AND	OFF	2009/10/19 17:48
S26	14	\$25 (radial ADJ (port OR ports))	US- PGPUB; USPAT; USOCR	AND	OFF	2009/10/19 17:49
\$27	31	("3941510" "4036297" "4149555" "4457334" "4474422" "4554981" "4682666" "4997760" "4708595" "4998226" "4997760" "5167282" "5211422" "5253713" "5259403" "5596161" "5526913" "5596161" "5596161" "55269163" "65369161" "6522199" "5647573" "5836333" "6149823" "61152167" "6523613" "6554580" "6537510" "6705740" "65236151" "6523613" "6554580" "637510" "6705404" "79840703" "699232" "RE31845"), FN. OR ("7331392"), UPIFN.	US- PGPUB; USPAT; USOCR	AND	OFF	2009/10/19 17:53
S28	1	(*5490564*).PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2009/10/19 17:57
S29	2731	(S15 OR S24)	US- PGPUB; USPAT; USOCR	AND	OFF	2009/10/19 18:04

S30	160	S29 (radial ADJ (port OR ports))	US- PGPUB; USPAT; USOCR	AND	OFF	2009/10/19 18:04
531	4032	S30 (piston ADJ lock) OR (locking ADJ piston) OR (lock ADJ piston)	US- PGPUB; USPAT; USOCR	AND	OFF	2009/10/19 18:04
S32	4	S30 ((piston ADJ lock) OR (locking ADJ piston) OR (lock ADj piston))	US- PGPUB; USPAT; USOCR	AND	OFF	2009/10/19 18:05
533	0	("2007/0125554").URPN.	USPAT	AND	OFF	2009/10/19 18:09
S34	161	(bosley.in.)	USPAT	AND	OFF	2009/10/19 18:10
S35	5	"166".clas. S34	USPAT	AND	OFF	2009/10/19 18:10
S36	31	["341510" "403829" "4149555" "4457334" "4474242" "4554981" "4682656" "497160" "5167282" "52853713" "52853713" "5285403" "5596819" "56253713" "5836333" "61489221" "612167" "6170572" "6280002" "62506161" "6523613" "6554580" "637510" "6705404" "6340703" "6907260" "8231845"). PN. OR ("7331392"). URFN.	US- PGPUB; USPAT; USOCR	AND	OFF	2009/10/20 09:50
S37	59558	1166".clas.	US- PGPUB; USPAT; USOCR	AND	OFF	2009/10/20 09:54
S38	2710	S37 ((sleeve ADJ valve) OR (sliding ADJ sleeve))	US- PGPUB; USPAT; USOCR	AND	OFF	2009/10/20 09:55
S39	1591	S38 (hydraulic or hydraulically)	US- PGPUB; USPAT; USOCR	AND	OFF	2009/10/20 09:55
S40	855	S39 (lock OR locked OR locking)	US- PGPUB; USPAT; USOCR	AND	OFF	2009/10/20 09:55
S41	107	\$39 ((lock OR locked OR locking) ADJ (piston OR mandrel))	US- PGPUB; USPAT; USOCR	AND	OFF	2009/10/20 09:55
S42	28	["2307949" "3454029" "3967647" "4084613" "4217934" "4402517" "4524831" "4621951" "4600447" "4770250" "5058673" "5323893" "5826661" "5832996" "5947205" "597207" "5971004" "6012518" "6085465" "6119783").PN. OR	US- PGPUB; USPAT; USOCR	AND	OFF	2009/10/20 10:19

S43	27	["2307949" "3454029" "3967647" "4084613" "4217934" "4402517" "4481864" "4524831" "4660366" 4660646" 4660647" "4718494" "4770250" "5058673" "5323965" "5826966" "5823966" 5882996" 5947205" "5957207" "5971004" "6012518" "6085945" "6119783"), PN. OR ("6505684"), URFN.	US- PGPUB; USPAT; USOCR	AND	OFF	2009/10/20 10:22
S44	235	166/323.ccls.	US- PGPUB; USPAT; USOCR	AND	OFF	2009/10/20 10:32
S45	17	S44 (radial ADJ (ports OR openings OR nozzles OR flowpaths))	US- PGPUB; USPAT; USOCR	AND	OFF	2009/10/20 10:33
S46	123	S44 (hydraulic OR hydraulically)	US- PGPUB; USPAT; USOCR	AND	OFF	2009/10/20 10:39
S47	12	S46 ((lock OR locked OR locking) ADJ (close OR closed))	US- PGPUB; USPAT; USOCR	AND	OFF	2009/10/20 10:39
S48	230	⁵ 166*.clas. ((lock OR locked) ADJ closed)	US- PGPUB; USPAT; USOCR	AND	OFF	2009/10/21 16:10
S49	1	("6,082,459").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2009/10/21 16:39
S50	5	("20060108115" "6981551" "6983795" "7124824" "7290610").PN. OR ("7451816"). URPN.	US- PGPUB; USPAT; USOCR	AND	OFF	2009/10/21 16:48
S51	21	"166" clas. ((index OR indexing) ADJ (piston OR ring))	US- PGPUB; USPAT; USOCR	AND	OFF	2009/10/21 18:29
S52	24	("4113012" "4403659" "4915175" "5010955" "5295538" "5377750" "5609178" "560924" "5700223" "5890540" "5901796"). PN. OR ("6220357").URPN.	US- PGPUB; USPAT; USOCR	AND	OFF	2009/10/21 18:54

EAST Search History (Interference)

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